CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.06/NVP/CEMENT/2013-14

Date: 26.03.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Ninganagowda .V. Patil**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains at Manjunathanagar in Ward No.06, Thanisandra village limits, BBMP, Bangalore.
REFERENCE	:	AEE/BTP/(WO)/521/2013-14 Dated: 24.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.50 %	-

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Job No.: CTCE/BBMP/W.No.06/NVP/AGG/2013-14 : 26.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ninganagowda .V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Manjunathanagar in Ward No.06, Thanisandra village limits, BBMP, Bangalore.

Reference : AEE/BTP/(WO)/521/2013-14 Dated: 24.03.2014

Date of Testing : 26.03.2014

Material : Sand Total Wt. of Aggregates 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.5	4.5	95.6	90-100
2.36	252	12.6	17.1	83.0	75-100
1.18	330	16.5	33.6	66.5	55-90
600 Micron	517	25.9	59.4	40.6	35-59
300 Micron	428	21.4	80.8	19.2	8-30
150 Micron	285	14.3	95.1	5.0	0

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TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ninganagowda .V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Manjunathanagar in Ward No.06, Thanisandra village limits, BBMP, Bangalore.

Reference : AEE/BTP/(WO)/521/2013-14 Dated: 24.03.2014

Date of Testing : 26.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0.0	100	100
40	1016	4.0	4.0	96.02	95-100
20	16528	64.8	68.8	31.20	30-70
10	5148	20.2	89.0	11.01	10-35
4.75	2510	9.8	98.8	1.17	0

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Job No.: CTCE/BBMP/W.No.06/NVP/CUBE/2014-15 05.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ninganagowda .V. Patil,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Manjunathanagar in Ward No.06, Thanisandra village limits, BBMP, Bangalore.
Reference	: AEE/BTP/(WO)/521/2014-15 Dated: 24.03.2014
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2014	05.05.2014	8.145	479.3	21.30
2	07.04.2014	05.05.2014	8.223	483.5	21.49
3	07.04.2014	05.05.2014	8.356	510.4	22.68

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TEST REPORT ON CONCRETE CUBES

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Agency	: **Mr. Ninganagowda .V. Patil,** Contractor, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.04.2014	10.05.2014	8.255	485.2	21.56
2	12.04.2014	10.05.2014	8.490	513.4	22.82
3	12.04.2014	10.05.2014	8.345	488.2	21.70

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2014	14.05.2014	8.425	516.4	22.95
2	16.04.2014	14.05.2014	8.256	489.2	21.74
3	16.04.2014	14.05.2014	8.345	493.6	21.94

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